



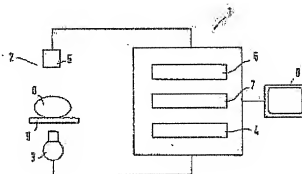


Bone contour and bone structure determination**Patent number:** DE19853965 (A1)**Publication date:** 2000-05-31**Inventor(s):** PFLAUM MICHAEL [DE]**Applicant(s):** SIEMENS AG [DE]**Classification:****- international:** A61F2/30; A61F2/36; A61F2/30; A61F2/36; (IPC1-7): A61F2/28; A61B5/103; A61B6/00**- european:** A61F2/30M2**Application number:** DE19981053965 19981123**Priority number(s):** DE19981053965 19981123**Cited documents:** DE4304572 (A1) DE3417609 (A1) EP0455986 (A2) EP0398029 (A1)**Abstract of DE 19853965 (A1)**

The method involves using an X-ray system with an X-ray image recording system for the detection of digital X-ray images, and a computer arrangement for determining relevant bone contours and bone structures, especially the passage from cortical to spongy bone contour. At least one first and one second digital X-ray image are recorded by using X-ray radiation of different energy spectra, and a subtraction image is derived through digital subtraction of both images. A contour image is produced through mathematical processing of the subtraction image, to determine the bone contours under application of a computer-based contour recognition method. The contour image is used for the planning and/or selection of the artificial limb implant.



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